The above papers are incorporated herein by reference in their entireties as a part of this paper.

REMARKS

Applicants respectfully request entry of this preliminary amendment and consideration of the remarks prior to examination of the application.

Description

Applicants have amended the description to correct typographical errors, to correct labeling inconsistencies between the specification and the Figures, and to properly reflect the status of the U.S. Patent Application cited therein.

Abstract

Applicants have amended the abstract to reduce the number of words in the abstract to below 150 words.

Claims

Claims 1-37 were originally filed in the application. Applicants have added Claims 38-46. Applicants have amended Claims 1-2, 4-20, and 22-36. Claims 1-46 remain in the application.

Claims 2, 4-10, 12-20, 22-26, and 28-34 have each been amended by inserting a comma to correct grammatical errors. These amendments correct an informality and therefore do not affect the scope of the claims.

Claim 1 and Claim 35 have each been amended to further describe that a presentation scheme is selected from a plurality of presentation schemes.

Claims 2 and 6 have each been amended to provide antecedent agreement with "new data" of Claim 1.

Claims 8-11, 18-20, 24-26, and 36 have each been amended to correct "the" to "said". These amendments correct an

informality and therefore do not affect the scope of the claims.

Claims 12 and 22 have each been amended to insert "wherein". These amendments correct grammatical errors, which are informalities, and so do not affect the scope of the claims.

Claim 27 has been amended to insert "and". The amendment corrects a grammatical error, which is an informality, and so does not affect the scope of the claim.

Drawings

Applicants have amended Figures 1B, 3 and 12 as filed. Applicants have amended Figure 1B to change the identifier "121" designating "Mail" to read "124" as another identifier "121" was also present in Figure 1B designating "Ext. Page". . Applicants have amended Figure 3, to adjust the line to identifier 312 from the partial filter adapters to the partial filter adapter library. Applicants have amended Figure 12 to provide an identifier "113".

These amendments are provided as red-lined drawings herewith attached and separately provided in a Request to Amend Drawings Under 37 C.F.R.§1.121. Applicants respectfully request entry of the amended Figures.

If the Examiner has any questions relating to the above, the Examiner is respectfully requested to telephone the undersigned Attorney for Applicants.

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on May 9, 2003.

Attorney for Applicant(s)

May 9, 2003 Date of Signature Respectfully submitted,

Forrest Gunnison

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Ralf Hofmann, Torsten Schulz, Bernd Eilers, and

' Thomas Pfohe

Assignee: Sun Microsystems, Inc.

Title: A COMPUTER-BASED PRESENTATION MANAGER AND METHOD

FOR INDIVIDUAL USER-DEVICE DATA REPRESENTATION

Serial No.: 09/759,744 Filed: January 12, 2001

Examiner: Unknown Group Art Unit: 2152

Docket No.: P-4592

Monterey, CA May 9, 2003

VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE DESCRIPTION

Change the paragraph extending from Page 3, line 13 to Page 3, line 24 as follows:

In one embodiment, a method for presenting data on a user device [comprises] <u>includes</u>: receiving, by a presentation manager, a request from the user device for data from any one of a plurality of different data sources, identifying presentation requirements of the user device to <u>the</u> presentation manager, and selecting a presentation scheme for the data in accordance with the presentation requirements of the user device, where the presentation scheme can be applied to the data to generate presentable data for the user device.

Change the paragraph extending from Page 4, line 20 to Page 4, line 25 as follows:

Two or more portlets may be arranged in <u>a</u> tree-like organization. This tree-like organization is presented to a user of the user device, for example, on a display screen of

the user device, so that this user has the possibility to easily choose among the content offered via the portlets.

Change the paragraph extending from Page 5, line 16 to Page 5, line 21 as follows:

In one embodiment, [of] selecting a presentation scheme includes selecting an XSL-stylesheet. The received request includes, in another embodiment, a command. The command is selected from a group of commands consisting of load, save, article, and channel.

Change the paragraph extending from Page 6, line 4 to Page 6, line 15 as follows:

[Thus, in one] <u>In a further</u> embodiment of the present invention, a presentation manager server system includes a web server, a presentation manager coupled to the web server, and at least one portlet coupled to the presentation manager. The at least one portlet may comprise any one of a mail portlet, a resource description framework portlet, and an internal network information portlet. A portlet is associated with content that is retrieved by that portlet. The presentation manager server system also may include a storage medium having stored thereon a plurality of presentation schemes.

Change the paragraph extending from Page 6, line 16 to Page 6, line 19 as follows:

In [one] <u>another</u> embodiment of the presentation manager server system, the web server [comprises] <u>includes</u> a servlet container, and the presentation manager [comprises] <u>includes</u> a servlet.

Change the paragraph extending from Page 6, line 20 to Page 6, line 31 as follows:

[A] In yet another embodiment, a computer program product[, according to one embodiment of the present invention] has stored thereon computer instructions for a method [comprising] including: receiving a request from the user device for the data; identifying presentation requirements of the user device; and selecting a presentation scheme for the data in accordance with the presentation requirements wherein upon application of the presentation scheme to the data, new data presentable on the user device is generated.

Change the paragraph extending from Page 6, line 32 to Page 7, line 13 as follows:

[A] In a further embodiment, a computer program product[, according to another embodiment of the present invention] has stored thereon computer instructions for a method [comprising] including: receiving a request from a user device generated by selection of a portlet identification object on the user device; transferring the request to a portlet wherein the portlet retrieves data specified in the request over a network and further wherein the data has one format in a plurality of source data formats; analyzing the request to determine a user data format that is supported by the user device; selecting a presentation scheme to convert the data from the source data format to the user data format gata format using the presentation scheme.

Change the paragraph extending from Page 7, line 14 to Page 7, line 37 as follows:

[A] In yet another embodiment, a computer program product[, according to yet another embodiment of the present invention] has stored thereon computer instructions for a method [comprising] including: receiving a request from a user device generated by selection of a portlet identification

object on the user device by a web server; analyzing the request by the web server to determine whether the request is for content associated with a portlet; transferring the request to a presentation manager upon determining that the request is for the content associated with a portlet; passing the request to the portlet by the presentation manager wherein the portlet retrieves data specified in the request over a network and further wherein the data has a source MIME type; analyzing the request to identify a user MIME type; selecting a presentation scheme from a plurality of presentation schemes based upon the user MIME type and the source MIME type; and converting the data from the source MIME type to the user MIME type using the presentation scheme.

Change the paragraph extending from Page 9, line 15 to Page 9, line 31 as follows:

According to the principles of this invention, a single presentation manager 113, executing on a presentation manager server system 100, accesses information from any one of a plurality of content sources 101A to 101C in response to a request from any one of a plurality of user devices 102A to 102F. Each of the plurality of user devices 102A to 102F may have different requirements for presentation of information retrieved by presentation manager 113, i.e., different presentation requirements. When a request for information is received from a particular user device, presentation manager 113 retrieves the information, identifies the presentation requirements of the particular user device, and then transforms the information, if necessary, using a presentation scheme specific to the user device so that the information can be presented on the particular user device.

Change the paragraph extending from Page 12, line 17 to Page 12, line 26 as follows:

In an explorer region on display screen 150 is a mail icon [121] 124. If the user selects mail icon [121] 124, a hierarchical view is generated on display screen 150A as illustrated in Figure 1B, each entry of which represents a portlet that can be used, in one embodiment, to request information from presentation manager server system 100. Corresponding to each icon displayed on user device 102A is a portlet, e.g., portlets 115 to 117 that are coupled to presentation manager 113, as explained more completely below.

Change the paragraph extending from Page 13, line 22 to Page 13, line 34 as follows:

Thus, an individual user can personalize the user device by specifying which service providers from among the ones the organization has made available via portlets, the user wants to use. To put it another way, the user chooses which portlets the [users] user wishes to be included on the desktop as illustrated in Fig. 1B. (A portlet is the smallest unit of information that can be put in a portal.) Hence, presentation manager server system 100 eliminates prior art limitations on a single user system on a network accessing content on any desired provider system that is coupled to the network.

Change the paragraph extending from Page 15, line 19 to Page 15, line 31 as follows:

As used herein, the presentation scheme for a user device is the totality of the configuration information needed to extract data from a first format and transform the data into new data for presentation on that user device. In one embodiment, as explained more completely below, the presentation schemes include a plurality of extensible Style sheet Language (XSL)-stylesheets that [is] are stored on a storage medium for access by presentation manager 113. Each XSL-stylesheet transforms extensible Markup Language (XML) data

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to new data that can be processed and displayed by a particular user device, sometimes referred to as user device presentable data.

Change the paragraph extending from Page 15, line 13 to Page 16, line 18 as follows:

In selecting a presentation scheme, in one embodiment, presentation manager 113 determines whether the request from the user device includes a specific identification of a presentation scheme; a list of MIME types that the user device is capable of displaying; and either a user identification and/or a device identification. If the user request specifies a specific presentation scheme, for example, a particular XSLstylesheet, presentation manager 113 selects that stylesheet as the presentation scheme. If a MIME type is specified in the request and presentation manger 113 has an XSL-stylesheet for transforming the requested content to that MIME type, this XSLstyle sheet is selected. If the requested content is in a MIME type that is in the list of MIME types in the request, presentation manager 113 simply passes the retrieved content If presentation manager 113 cannot identify a straight thru. specific presentation scheme for the requested data, presentation manager 113 simply passes the retrieved content straight thru, in one embodiment. Thus, in each instance, presentation manager 113 [identified] identifies the presentation requirements based upon information specified in the request, and [selected] selects an appropriate presentation scheme.

Change the paragraph extending from Page 17, line 20 to Page 17, line 25 as follows:

Figure 2A is a process flow diagram of one embodiment of a method 200 according to the present invention. Figure 3 is a more detailed block-level diagram of one embodiment of

presentation manager server system 100 that implements method 200 of Figure 2A. In this embodiment, network server 111 is a web server 111, and presentation manager 113 is a portlet manager 113.

Change the paragraph extending from Page 20, line 19 to Page 20, line 29 as follows:

The request from the user device in operation 210 goes over a network to web server 111, which in this embodiment is a web server 111. In one embodiment, web server 111 is the Tomcat server supplied by The Apache Software Foundation, 1901 Munsey Drive, Forest Hill, MD 21050-2747, U.S.A. However, in this embodiment, any HTTP server that supports the functionality and operations described herein can be used as web server 111. In one embodiment, web server 111 is a servlet container, and portlet manager 113 is implemented as a servlet.

Change the paragraph extending from Page 20, line 36 to Page 21, line 14 as follows:

Check operation 215 can be implemented in various alternative ways. In one embodiment, deployment descriptors as defined in the JAVA 2 Enterprise Edition are used and checked in operation 215 to determine where to direct the user request. The JAVA 2 Platform Enterprise Edition Specification, v1.2, Sun Microsystems, Inc., Palo Alto, CA (1999) and the JAVA Servlet Specification, v2.2, Sun Microsystems, Inc. Palo Alto, CA (1999) are incorporated herein by reference to show the level of skill in the art. Based upon the deployment descriptors, if the request is for web server 111, processing transfers to continue operation [217] 216 and conventional processing continues. Otherwise, the request is forwarded to portlet manager 113 and processing transfers to contact portlet operation 220.

Change the paragraph extending from Page 21, line 26 to Page 21, line 31 as follows:

Thus, if the request is supported by web server[,] 111, processing transfers to continue operation 216 and conventional processing continues. Otherwise, the request is forwarded to portlet manager 113 and processing transfers to contact portlet operation 220.

Change the paragraph extending from Page 22, line 33 to Page 23, line 3 as follows:

In identity check operation 242, portlet manager 113 determines whether the request included identification information. If [identity information is included] the request included identification information, processing transfers to get identity from request operation 243 and otherwise, processing transfers to retrieve scheme operation 270. Get identity from request operation 243 retrieves the device identification from the request and transfers to retrieve scheme operation 270.

Change the paragraph extending from Page 25, line 27 to Page 26, line 3 as follows:

If the request [specified] specifies an XSL-stylesheet, check operation 401 [transferred] transfers to XSL extension check operation 413, which in turn determines whether the specification in the request [included] includes an XSL extension (.xsl). If the request included the extension, processing transfers to preferred XSL-stylesheet available check operation 415 and otherwise to set extension operation 414. Set extension operation 414 adds a XSL extension to the requested stylesheet and transfers to preferred XSL-stylesheet available check operation 415. Upon entry to operation 415, a MIME type, a device type and a XSL-

stylesheet are specified [to] <u>so</u> that the path to the storage location of the stylesheet can be constructed.

Change the paragraph extending from Page 27, line 13 to Page 27, line 24 as follows:

In this example, it was assumed that convert data operation 271 was performed on the same computer running portlet manager 113. However, in another embodiment, retrieve scheme operation 270 and retrieve data operation 230 send the retrieved scheme and retrieved data respectively to another computer system connected to the user device, or the user device itself. In these cases, convert data operation 271 is performed on the another computer system, or the user device, and [returned] return converted data operation 272 is performed only if operation 271 was executed on other than the user device.

Change the paragraph extending from Page 28, line 3 to Page 28, line 13 as follows:

However, in this situation, portlet manager 113 issues a translation request to a filter server 315. In one embodiment, portlet manager 113 sends a request that includes the MIME type required as input to the presentation scheme for the user device, and an address of the requested document to filter server 315. This address can be to a memory where the document is stored after being retrieved by a portlet, or a URL to a location of the document on the network. The only requirement is that filter server 315 is able to access the requested document.

Change the paragraph extending from Page 28, line 14 to Page 28, line 30 as follows:

In response to the request, filter server 315 builds a filter that can read the requested document, dynamically convert the read data using a partial filter adapter chain to the new format, and then write the converted data in the new format so that the data can be supplied to [presentation] portlet manager 113. More specifically, in response to the request from [presentation] portlet manager 113, filter server 315 via a conversion service 310, in one embodiment, causes a protocol reader to be instantiated and uses the protocol reader to access the requested document to determine the format of the requested data, i.e., the source document data format. With the source document data format and the target document data format, i.e., the MIME type received in the original request, filter server 315 builds a filter for converting the format of source document to the format of the target document.

Change the paragraph extending from Page 29, line 7 to Page 29, line 18 as follows:

In this embodiment, filter server 315 via conversion service 310 constructs a data filter by gluing a protocol read and parser unit to an input end of the partial filter adapter chain and a bit stream printer and protocol writer to an output end of the chain. After construction of the data filter, conversion service 310 uses the data filter to process the requested document, e.g., the spreadsheet. The data filter generates data with a MIME type that can be input to the presentation scheme that is returned to [presentation] portlet manager 113, which in turn processes the data as described above.

Change the paragraph extending from Page 29, line 32 to Page 30, line 7 as follows:

A more complete description of filter server 315, and each of the components therein is provided in commonly filed and commonly assigned U.S. Patent Application Serial No. [09/xxx,xxx] 09/759,742, entitled "A METHOD AND STRUCTURE FOR DYNAMIC CONVERSION OF DATA," of Ralf Hofmann and Michael Hönnig, which is incorporated herein by reference in it entirety. In another embodiment, filter server 315 provides information about the dynamic filter to portlet manager 113, and portlet manager 113 stores a new presentation scheme on unit 302 that includes the dynamic filter generated by filter server 315, or at least a handle to the dynamic filter, and the retrieved presentation scheme.

Change the paragraph extending from Page 30, line 15 to Page 30, line 19 as follows:

In one embodiment, the URL in the request from the user device is of the form:

Change the paragraph extending from Page 31, line 8 to Page 31, line 17 as follows:

After portlet manager 113 is initialized, portlet manager 113 first issues a get context message to the configuration object, and then issues a get parameters object message to the configuration object. In the embodiment of Figure 6, the configuration path names are loaded to XSL and XML files. The creation and initialization messages are issued by web server 111 only once for the purpose of initialization. Subsequently, the search for the servlet that is portlet manager 113 finds portlet manager 113.

Change the paragraph extending from Page 31, line 30 to Page 31, line 37 as follows:

In response to the call to method do Get, portlet manager 113 [issued] <u>issues</u> calls to methods get header and get servlet path of the HTTP request object. Portlet manager 113 builds a string that specifies the URL of the portlet based on the information in the request from the user device. See Figures 7A to 7B for one embodiment of HTTP Get and Post commands and method do Get.

Change the paragraph extending from Page 33, line 8 to Page 33, line 24 as follows:

If the connection uses the HTTP protocol, information in the HTTP header can be used to recognize the MIME type of the response content. [IF] If the protocol is not HTTP, the extension of the URL is [check] checked to determine the type of the response content. If the extension of the URL is .xml, a guess is made of what type of XML file is requested by analyzing a field DOCTYPE in the header of the XML file. the case that [a] an XML file based on a certain document type definition is recognized, the response type is set to the name associated with the document type definition. If the response is not an XML file, the URL connection object guesses the content type of the response content. This is done by a JAVA URLConnnection object that is part of the JAVA runtime environment, which is incorporated herein by reference to show the level of skill in the art.

Change the paragraph extending from Page 33, line 32 to Page 34, line 7 as follows:

If the request was a HTTP request, and no preferred MIME type was specified, the preferred MIME type associated with the user is used. If the request failed to specify a device type,

the device type associated with the user is used. If the request was for [a] an XML file, and the XML parameter that specified the stylesheet in the original request was not used, a channel XSL-stylesheet is used if the command in the original request was command channel, and an article XSL style sheet is used if the command in the original command was command article. If the original request specified an XSL-stylesheet, this stylesheet is used. (See Fig. 4.)

Change the paragraph extending from Page 34, line 25 to Page 34, line 30 as follows:

If the loaded document is a [lists] <u>list</u> of portlets because no portlet was specified in the original URL, or has a MIME type that is not accepted by the user device, the document is modified in a memory to which the user is not subscribed. This is necessary, because such content could not be displayed on the user device.

Change the paragraph extending from Page 35, line 23 to Page 35, line 36 as follows:

In view of this disclosure, various alternative embodiments will be apparent to those of skill in the art. For example, in the above embodiment, data was retrieved by presentation manager 113, and presentation manager 113 applied the selected presentation scheme to the data. In another embodiment of the present invention, the data may be retrieved by the user device itself. Then, the selected presentation scheme may be applied by the user device or by the presentation manager 113. The latter, for example, would apply if the data retrieved by the user device were transferred to presentation manager 113 for applying the selected presentation scheme and then re-transferred to the user device.

IN THE ABSTRACT

Change the paragraph extending from Page 45, line 11 to Page 45, line 33 as follows:

Access to external service providers is provided through portlets, where each portlet accessible by a user is represented on the display of the user device. Through use of a dynamic content channel, e.g., a portlet, a highly customizable content page may be produced for any individual client system. When a portlet is selected on a user device, the content associated with the portlet is retrieved and automatically transformed into data that can be displayed by that user device. Thus, a particular user device is not limited to accessing content in a format identical to that associated with the user interface in use on the user device. Consequently, the user's ability to access a wide variety of content sources independent of the characteristics of the particular user device is further enhanced. [An individual user can personalize the user device by specifying which service providers from among the ones the organization has made available via portlets, the user wants to use. art limitations on a single user system on a network accessing content on any desired external provider system that is coupled to the network are eliminated.]

IN THE CLAIMS

1. (Amended) A method for presenting data on a user device comprising:

receiving a request from said user device for said data;

identifying presentation requirements of said user device; and

selecting a presentation scheme for said data <u>from a</u> plurality of presentation schemes in accordance with said

presentation requirements wherein upon application of said presentation scheme to said data, new data presentable on said user device is generated.

- 2. (Amended) The method of Claim 1, further comprising: applying said presentation scheme to said data to create said new [presentable]data.
- 4. (Amended) The method of Claim 2, further comprising: transmitting said new data to said user device to allow the presentation of said new data on said user device.
- 5. (Amended) The method of Claim 1, further comprising retrieving said data.
 - 6. (Amended) The method of Claim 5, further comprising: applying said presentation scheme to said retrieved data to create said new [presentable]data.
- 7. (Amended) The method of Claim 1, wherein said request includes a command.
- 8. (Amended) The method of Claim 7, wherein [the] <u>said</u> command is selected from a group of commands consisting of load, save, article, and channel.
- 9. (Amended) The method of Claim 7, wherein [the] <u>said</u> command is a command article.
- 10. (Amended) The method of Claim 7, wherein [the] said command is a command channel.
- 11. (Amended) A method for providing data to a user device comprising:

receiving a request from a user device generated by selection of a portlet identification object on [the] <u>said</u> user device;

transferring said request to a portlet wherein said portlet retrieves data specified in said request over a network and further wherein said data has one format in a plurality of source data formats;

analyzing said request to determine a user data format that is supported by said user device;

selecting a presentation scheme to convert said data from said source data format to said user data format; and converting said data from said source data format to said user data format using said presentation scheme.

- 12. (Amended) The method of Claim 11, wherein said selecting a presentation scheme comprises selecting an XSL-stylesheet.
- 13. (Amended) The method of Claim 11, wherein said plurality of source data formats are MIME types.
- 14. (Amended) The method of Claim 11, wherein said user data format is specified by a MIME type.
- 15. (Amended) The method of Claim 11, wherein said receiving is performed by a web server.
- 16. (Amended) The method of Claim 11, wherein said transferring said request is performed by a portlet manager.
- 17. (Amended) The method of Claim 11, wherein said request includes a command.

- 18. (Amended) The method of Claim 17, wherein [the] said command is selected from a group of commands consisting of load, save, article, and channel.
- 19. (Amended) The method of Claim 17, wherein [the] said command is a command article.
- 20. (Amended) The method of Claim 17, wherein [the] said command is a command channel.
- 22. (Amended) The method of Claim 21, wherein said selecting a presentation scheme comprises selecting an XSL-stylesheet.
- 23. (Amended) The method of Claim 21, wherein said request includes a command.
- 24. (Amended) The method of Claim 23, wherein [the] <u>said</u> command is selected from a group of commands consisting of load, save, article, and channel.
- 25. (Amended) The method of Claim 21, wherein [the] said command is a command article.
- 26. (Amended) The method of Claim 21, wherein [the] said command is a command channel.
- 27. (Amended) A presentation manager server system comprising:
 - a web server;
 - a presentation manager coupled to said web server; and
 - at least one portlet coupled to said presentation manager.

- 28. (Amended) The presentation manager server system of Claim 27, wherein said at least one portlet comprises a mail portlet.
- 29. (Amended) The presentation manager server system of Claim 27, wherein said at least one portlet comprises a resource description framework portlet.
- 30. (Amended) The presentation manager server system of Claim 27, wherein said at least one portlet comprises an internal network information portlet.
- 31. (Amended) The presentation manager server system of Claim 27. further comprising a storage medium having stored thereon a plurality of presentation schemes.
- 32. (Amended) The presentation manager server system of Claim 27, wherein said web server comprises a servlet container.
- 33. (Amended) The presentation manager server system of Claim 27, wherein said presentation manager comprises a servlet.
- 34. (Amended) The presentation manager server system of Claim 27, further comprising a plurality of user devices coupled to said web server.
- 35. (Amended) A computer program product having stored thereon computer instructions for a method comprising:

receiving a request from said user device for said data;

identifying presentation requirements of said user device; and

selecting a presentation scheme for said data <u>from a</u> plurality of presentation schemes in accordance with said

presentation requirements wherein upon application of said presentation scheme to said data, new data presentable on said user device is generated.

36. (Amended) A computer program product having stored thereon computer instructions for a method comprising:

receiving a request from a user device generated by selection of a portlet identification object on [the] <u>said</u> user device;

transferring said request to a portlet wherein said portlet retrieves data specified in said request over a network and further wherein said data has one format in a plurality of source data formats;

analyzing said request to determine a user data format that is supported by said user device;

selecting a presentation scheme to convert said data from said source data format to said user data format; and converting said data from said source data format to said user data format using said presentation scheme.

- 38. (New) The method of Claim 21, further comprising: transmitting said data converted from said source MIME type to said user MIME type to said user device to allow the presentation of said data converted from said source MIME type to said user MIME type on said user device.
- 39. (New) The computer program product of Claim 36, the method further comprising:

transmitting said data converted from said source data format to said user data format to said user device to allow the presentation of said data converted from said source data format to said user data format on said user device.

40. (New) The computer program product of Claim 37, the method further comprising:

transmitting said data converted from said source MIME type to said user MIME type to said user device to allow the presentation of said data converted from said source MIME type to said user MIME type on said user device.

41. (New) A method for presenting data on a user device comprising:

receiving a request from a user device to retrieve content associated with a portlet identifier, said request generated by selection of said portlet identifier from a plurality of portlet identifiers displayed on said user device, each of said portlet identifiers representing a different portlet;

transferring said request to a portlet represented by said portlet identifier wherein said portlet retrieves said content over a network;

selecting a presentation scheme for said content; applying said presentation scheme to said content to create presentable content; and

transmitting said presentable content to said user device.

42. (New) The method of Claim 41, wherein said selecting a presentation scheme for said content is in accordance with said presentation requirements of said user device, and wherein said method further comprises:

identifying presentation requirements of said user device.

43. (New) The method of Claim 42, wherein said user device includes a user interface having an associated user device interface format, and

further wherein said content is not in said associated user device interface format.

- 44. (New) The method of Claim 41, wherein each of said portlet identifiers is associated with a specific source of content.
- 45. (New) A method for presenting data on a user device comprising:

receiving a first request from said user device to retrieve content, said request not being addressed to a specific portlet;

sending a list of available information sources to said user device, each of said available information sources on said list being associated with a specific portlet;

receiving a second request from said user device to retrieve content, said second request generated by selection of one of said available information sources on said list, said second request being to retrieve content associated with said specific portlet;

transferring said request to said specific portlet wherein said specific portlet retrieves said content;

selecting a presentation scheme for said content; applying said presentation scheme to said content to create presentable content; and

transmitting said presentable content to said user device.

46. (New) A method for presenting data on a user device comprising:

receiving a request from said user device for said data;

retrieving said data;

identifying presentation requirements of said user device;

selecting a presentation scheme for said data from a plurality of presentation schemes in accordance with said presentation requirements wherein upon application of said presentation scheme to said data, new data presentable on said user device is generated; and

applying said presentation scheme to said data to create said new data.

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on May 9, 2003.

Attorney for Applicant(s)

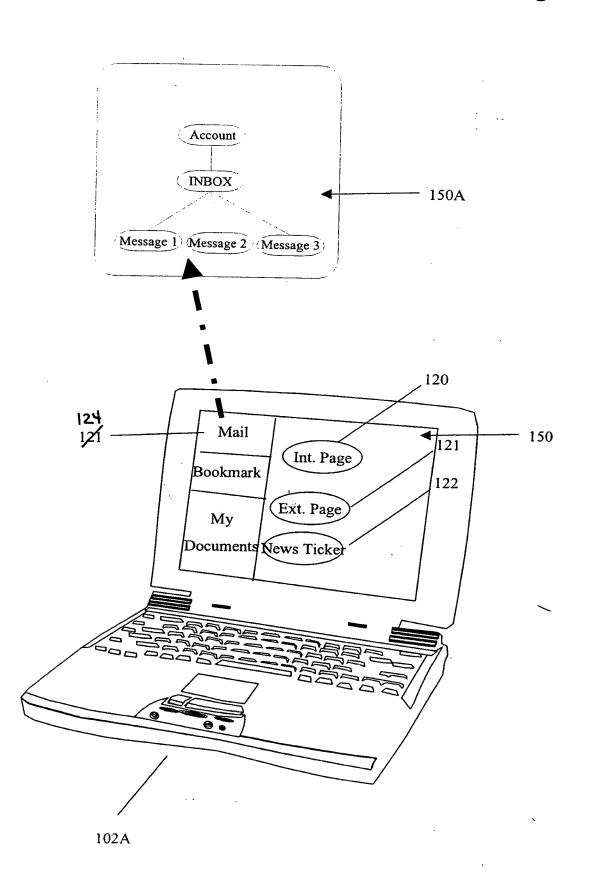
May 9, 2003 Date of Signature





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Fig. 1B



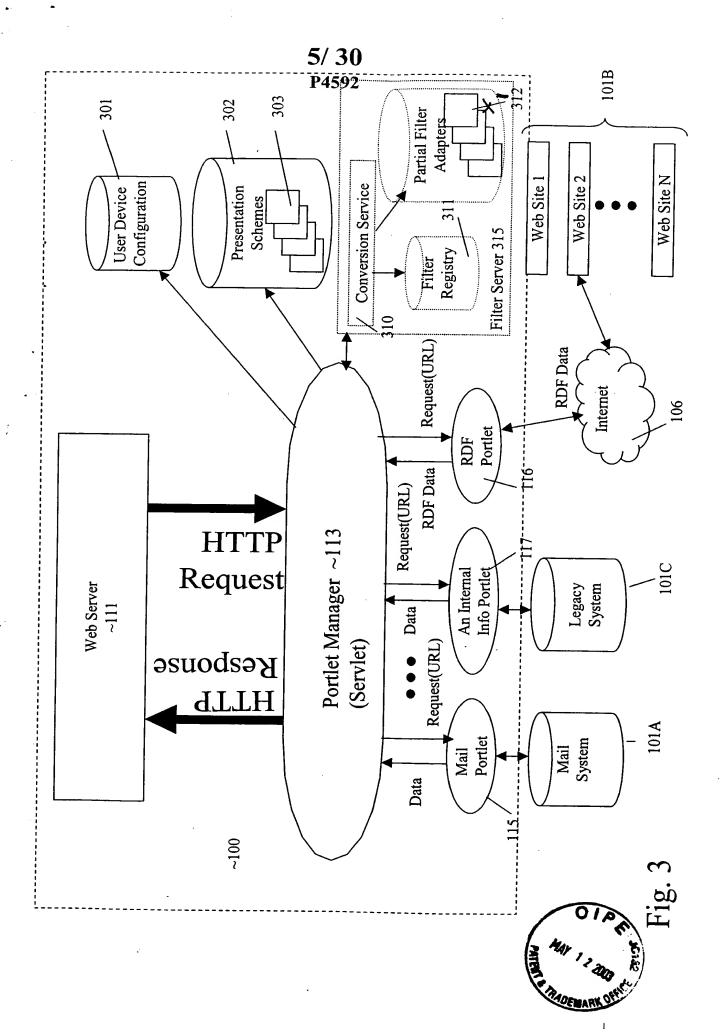


Fig. 12

K 113

A	В
С	
D	
Е	
F	